

AMENDMENT TO THE CLAIMS

The following is a detailed listing of all claims that are, or were, in the Application.

1-29. (Canceled)

30. (Currently Amended) An apparatus for processing multimedia data, the apparatus comprising:

a memory; and

a processor configured to perform operations comprising:

generating ~~segment group information~~ in a data structure describing multimedia data and including[[, the]] segment group information defining [[a]] first and second segment groups, each of the first and second segment groups that includes including a respective plurality of segments selected from a multimedia stream, wherein said segment group information specifies a respective group type and a respective duration for each of said first and second segment groups, and wherein the segment group information includes segment order information defining that two or more the segments within the first segment group are ordered relative to each other according to a time sequence and the segments within the second segment group are unordered relative to each other according to [[a]] the time sequence; and

storing the data structure with the segment group information in the memory.

31. (Previously presented) The apparatus of claim 30, wherein said segment group information includes a level information.

32. (Previously presented) The apparatus of claim 31, wherein said level information defines multiple levels.

33. (Currently amended) The apparatus of claim 30, wherein each segment contained in the ~~plurality of segments~~ has first and second segment groups is defined by a respective start time and an end time a respective segment duration.

34. (Currently amended) A method for processing multimedia data, the method comprising:

generating segment group information for a data structure describing multimedia data; and

transmitting said segment group information to a client,

wherein said segment group information:

defines ~~[[a]]~~ first and second segment groups, each of which ~~that~~ includes a respective plurality of segments selected from a multimedia stream;

specifies a respective group type and a respective duration for each of said first and second segment groups; and

includes segment order information defining that ~~two or more~~ the segments within the first segment group are ordered relative to each other according to a time sequence and the segments within the second segment group are unordered relative to each other according to ~~[[a]]~~ the time sequence.

35. (Previously presented) The method of claim 34, wherein said segment group information includes a level information.

36. (Previously presented) The method of claim 35, wherein said level information defines multiple levels.

37. (Currently amended) The method of claim 34, wherein the segment group information defines a respective start time and ~~an end time~~ a respective segment duration for

each segment contained in the ~~plurality of segments~~ first and second segment groups.

38. (Currently amended) An apparatus for processing multimedia data, the apparatus comprising:

a memory; and

a processor configured to perform operations comprising:

receiving segment group information defining ~~[[a]]~~ first and second segment groups in a data structure describing multimedia data, each of the first and second segment groups including a respective plurality of segments selected from a multimedia stream, wherein said segment group information specifies a respective group type and a respective duration for each of said first and second segment groups and wherein the segment group information includes segment order information defining that ~~two or more~~ the segments within the first segment group are ordered relative to each other according to a time sequence and the segments within the second segment group are unordered relative to each other according to ~~[[a]]~~ the time sequence; and

storing the data structure with the segment group information in the memory.

39. (Previously presented) The apparatus of claim 38, wherein said segment group information includes a level information.

40. (Previously presented) The apparatus of claim 39, wherein said level information defines multiple levels.

41. (Currently amended) The apparatus of claim 38, wherein each segment contained in the ~~plurality of segments~~ has first and second segment groups is defined by a respective start time and ~~an end time~~ a respective segment duration.

42. (Currently amended) A method for processing multimedia data, the method comprising:

receiving segment group information from a provider; and

storing said received segment group information in a data structure describing multimedia data in a client, wherein said segment group information:

defines ~~[[a]]~~ first and second segment groups, each of which that includes a respective plurality of segments selected from a multimedia stream;

specifies a respective group type and a respective duration for each of said first and second segment groups; and

includes segment order information defining that ~~two or more~~ the segments within the first segment group are ordered relative to each other according to a time sequence and the segments within the second segment group are unordered relative to each other according to ~~[[a]]~~ the time sequence.

43. (Previously presented) The method of claim 42, wherein said segment group information includes a level information.

44. (Previously presented) The method of claim 43, wherein said level information defines multiple levels.

45. (Currently amended) The method of claim 42, wherein each segment contained in the ~~plurality of segments~~ has first and second segment groups is defined by a respective start time and ~~an end time~~ a respective segment duration.

46. (Currently amended) A storage medium storing a data structure describing multimedia data, the data structure configured to be processed by multimedia data processing apparatus, the stored data structure comprising:

segment group information defining [[a]] first and second segment groups, each of which ~~that~~ includes a respective plurality of segments selected from a multimedia stream, wherein said segment group information specifies a respective group type and a respective duration for each of said first and second segment groups, and wherein the segment group information includes segment order information defining that ~~two or more~~ the segments within the first segment group are ordered relative to each other according to a time sequence and the segments within the second segment group are unordered relative to each other according to [[a]] the time sequence.

47. (Previously presented) The storage medium of claim 46, wherein said segment group information includes a level information.

48. (Previously presented) The storage medium of claim 47, wherein said level information defines multiple levels.

49. (Currently amended) The storage medium of claim 46, wherein the segment group information defines a respective start time and ~~an end time~~ a respective segment duration for each segment contained in the ~~plurality of segments~~ first and second segment groups.

50-53. (Cancelled)

54. (Currently amended) The apparatus of claim 30, wherein the respective group type for each of the first and second segment groups specifies that the first and second

segment groups [[is]] are related to at least two objects represented in the content of the multimedia stream.

55. (Currently amended) The apparatus of claim 54, wherein the first segment group includes segments representing time ordered relation changes between the at least two objects, ~~and the segment order information defines that the segments representing relation changes are ordered relative to each other according to a time sequence defined by subsequent events.~~

56. (Currently amended) The apparatus of claim ~~[[55]]~~ 30, wherein the segment group information indicates that the first segment group includes segments that represent highlights from the multimedia stream.

57. (Currently amended) The apparatus of claim 54, wherein the ~~two or more unordered~~ segments within the second segment group include segments representing constant relations between the at least two objects.